	Application No.	Amplicant(a)	
	Application No.	Applicant(s)	
Al 4' PAH LUI4	10/731,688	WANG ET AL.	
Notice of Allowability	Examiner	Art Unit	-
	ALEXANDER BOAKYE	2616	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communications. This application is subjection.	s application. If not included ation will be mailed in due cou	rse. THIS
2.   The allowed claim(s) is/are 1-24,26,25; renumberd as 1-26	<u> 6 respectively.</u>		•
3.  ☐ Acknowledgment is made of a claim for foreign priority uses a) ☐ All b) ☐ Some* c) ☐ None of the:  1.  ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 1. ☐ Copies of the certified copies of the priority documents have 2. ☐ Copies of the certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have 1. ☐ Copies of the priority documents have 2. ☐ Copies of the priority documents have 2. ☐ Copies of the priority documents have 3. ☐ Copies of th	e been received. e been received in Application Note the communication to file a realizable.  In this communication to file a realizable.  In the communication to file a realizable and the communication.  In the communication to file a realizable and the communication.  In this communication to file a realizable and the communication to file a realizable and the communication.  In this communication to file a realizable and the communication to file and the comm	this national stage application poly complying with the require NER'S AMENDMENT or NOT claration is deficient.	ements
Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLO	AL must be submitted. Note GICAL MATERIAL.	the
	er van der er en gelijk bis	·.	
Attachment(s)	. 1		
1. Notice of References Cited (PTO-892)	5. Notice of Inform	al Patent Application (PTO-1	52)
2. $\square$ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ	nary (PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit		Dateendment/Comment ement of Reasons for Allowa	nce
of Biological Material	9.  Other		
			1

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1. The drawings filed 12/09/2003 has been approved by the examiner.

## **REASONS FOR ALLOWANCE**

2. The following is an examiner's statement of reasons for allowance: Claims 1-26 are considered allowable since when reading the claims in light of the specification, none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims. As to claim 1, the prior art of record does not teach adding a plurality of prefixes to a plurality of data streams in symbol-level carrying a plurality of transmit symbols for providing a plurality of further data streams indicative of the prefix-added streams; and combining the spread data streams into at least one code division multiple access chip-level code stream for transmission. As to claims 2-5, the prior art of record does not teach streams is divided into a plurality of data blocks so as to allow the prefixes to be added to the data blocks for providing a plurality of prefix-added data blocks.

As to claims 6-16, the prior art of record does not teach wherein the transmitted chip-level code stream is received for providing a receiving signal indicative of the received chip-level code stream, and method further comprising: removing the prefixes from the received signal for providing a further signal in time domain indicative of a prefix-removed data stream and converting the further signal into a transformed signal

tide as high as a

in frequency domain. As to claims 17-19, the prior art of record does not teach a plurality of first modules, for adding a plurality of prefixes to a plurality of data streams in symbol-level carrying a plurality of transmit symbols for providing a plurality of further data streams indicative of the prefix-added data streams; and summing module for summing the spread data streams into at least one code division multiple access chip-level code stream for transmission.

As to claims 20-22, the prior art of record does not teach a third module for applying a plurality of feed-forward filter coefficients to the transformed signal for channel equalization in frequency domain and providing equalized signal for dispreading. As to claims 23, 24 and 26, the prior art of record does not teach a summing module for summing the spread data streams into at least one code division multiple access chip-level code stream for transmission; and a third module for removing the prefixes from the code division multiple access chip-level code stream for providing a prefix-removed code stream in the time domain. As to claim 25, the prior art of record does not teach a seventh module, for applying a plurality of feed-forward filter coefficients to the transformed signal for channel equalization in frequency domain and providing equalized signal for dispreading; an eight module, for converting the equalized signal into a further transformed signal in time domain; and a ninth module for removing inter-symbol interference in the further transformed signal in time domain. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany Application/Control Number: 10/731,688

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the issue fee. Such submissions should be clearly labeled "Comments on Statement of

Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alexander Boakye whose telephone number is (571)

272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chi Pham, can be reached on (571) 272-3179. The fax number is (571)

273-8300. Any inquiry of general nature or relating to the status of this application or

proceeding should be directed to Electronic Business Center numbers 866-217-9197

and 703-305-3028.

Alexander Boakye

**Patent Examiner** 

6/7/06

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